



1764

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

BERG et al.

Serial No. 09/831,402

Filed: May 9, 2001

For: REACTOR FOR CARRYING OUT GAS-LIQUID, LIQUID, LIQUID-LIQUID OR  
GAS-LIQUID-SOLID CHEMICAL REACTIONS

Group Art Unit: 1764

Examiner: Unknown

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

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August 14, 2001

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Hon. Commissioner of Patents  
and Trademarks  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

This subject Information Disclosure Statement is submitted in connection with applicants' continuing duty of disclosure under 37 CFR 1.56.

Listing of Relevant Documents

The relevant documents are listed in the attached Form PTO-1449.

Remarks

The listed references are discussed on pages 1 and 2 of the specification, and in the attached International Search Report.

U.S. 5,563,296 is the English equivalent of DE-A 43 23 987, which is discussed on page 1 of the instant specification.

U.S. 5,387,396 is the English equivalent of EP-A 26 39 35, which is discussed on page 2 of the instant specification.

JP 63 043920 is not available in English, however an English language abstract is supplied herewith which should meet the concise explanation requirement.

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TC1700

DE-A 32 06 661, DE-A 34 458 904, GB-A 2,222,098, DE -A 14 42 821, GB  
1,133,483, GB 1,013,888 and the Altensen et al. reference were cited in the Examiner's  
examination of the copending German application.



Respectfully submitted,  
KEIL & WEINKAUF

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Form PTO-1449

Sheet \_\_\_\_ of \_\_\_\_

Document Number  
0050/49568Application Number  
09/831,402Applicant  
BERG et al.  
Filing Date  
May 9, 2001Group Art Unit  
1764INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

Exam. Init.	Document Number	Date	Name	Class	Sub- Class	Filing Date
	4,234,560	11/18/80	Kuerten et al.	423	659	
	5,154,898	10/13/92	Ajinkya et al.	422	227	
	3,723,545	3/27/73	Nagel et al.	260	635	
	5,387,396	2/7/95	Dallmeyer et al.	422	106	
	5,563,296	10/8/96	Zarnack et al.	564	222	

## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Sub- Class	Filing Date
	DE 1 442 821	12/5/68	Germany			
	GB 2 222 098	2/28/90	Great Britain			
	DE 32 06 661	9/1/83	Germany			
	GB 1,013,888	12/22/65	Great Britain			
	DE 34 45 904	8/7/86	Germany			
	JP 63043920	2/25/88	Japan			
	EP 0 263 935	4/20/88	Europe			
	DE 43 23 687	1/19/95	Germany			
	GB 1,133,483	3/16/66	Great Britain			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Altensen et al. "Strahlgetriebener Schlaufenreaktor" BIOforum Vol. 1, 1999  
pgs 18-22RECEIVED  
AUG 20 2001  
TC 1700

Cramers et al. "Hydrodynamics and Mass Transfer Characteristics of Loop-Venture Reactor with a Downflow Liquid Jet Ejector" Chemical Engineering Science Vol. 47, No. 13/14 (1992) pgs 3557-3564

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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